## CONTENTS OF VOLUME 41

Adams, J. B. and Drew, M. E. A cellulose-hydrolyzing factor in aphids, 1205.

The effects of heating on the hydrolytic activity of aphid extracts on soluble cellulose substrates, 1263.

Ahsan, S. N. and Hoar, W. S. Some effects of gonadotropic hormones on the threespine stickleback, Gasterosteus aculeatus, 1045.

Ali, M. A. and Hanyu, I. A comparative study of retinal structure in some fishes from moderately deep waters of the Western North Atlantic, 225.

Alicata, J. E. Morphological and biological differences between the infective larvae of

Angiostrongylus cantonensis and those of Anafilaroides rostratus, 1179.

Anderson, J. M. and Bradley, R. H. E. Attempts to obtain electrophysiological activity

from aphid stylets, 705.

Anderson, R. C. The incidence, development, and experimental transmission of *Pneumostrongylus tenuis* Dougherty (Metastrongyloidea: Protostrongylidae) of the meninges of the white-tailed deer (Odocoileus virginianus borealis) in Ontario, 775. Further studies on the taxonomy of metastrongyles (Nematoda: Metastrongyloidea)

of Mustelidae in Ontario, 801 See also Schad, G. A., 797.

Anderson, R. C. and Bennett, G. F. Ophthalmic myiasis in amphibians in Algonquin Park,

Ontario, Canada, 1169.

Arai, M. N., Cox, E. T., and Fry, F. E. J. An effect of dilutions of seawater on the lethal temperature of the guppy, 1011.

Ashton, G. C. See Musgrave, A. J., 1245. Atwood, C. W. See Steward, C. C., 577.

Baggerman, B. The effect of TSH and antithyroid substances on salinity preference and thyroid activity in juvenile Pacific salmon, 307.

Baker, B. E., Bertok, E. I., and Symes, A. L. The protein and lipid constitution of guinea pig milk, 1041.

Baker, B. E., Harington, C. R., and Symes, A. L. Polar bear milk. I. Gross composition and fat constitution, 1035.

Balasingam, E. Experimental infection of dogs and cats with Molineus barbatus Chandler, 1942, with a discussion on the distribution of Molineus spp., 599.
On the two genera Arthrocephalus Ortlepp, 1925 and Placoconus Webster, 1956, 919.

Redescription of Cyclodontostomum purvisi Adams, 1933, a hookworm parasite of

Malayan giant rats, 1237.

Baldwin, W. F. and Shaver, E. L. Radiation-induced sterility in the insect Rhodnius prolixus,

Barlow, C. A., Wressell, H. B., and Driscoll, G. R. Some factors determining the size of infestations of the European corn borer, Ostrinia nubilalis (Hbn.) (Pyralidae: Lepidop-

tera J, 963.

Barron, J. R. See Höhn, E. O., 1171.

Battle, H. I. See Christie, R. M., 51.

Beckel, W. E. See Paim, U., 1133, 1149.

Beennett, G. F. Use of Pss in the study of a population of Simulium rugglesi (Diptera: Simuliidae) in Algonquin Park, Ontario, 831.

The salivary gland as an aid in the identification of some simuliids, 947.

Berkeley, C. See Berkeley, E., 149, 907.

Berkeley, E. and Berkeley, C. Neoteny in larvae of two species of Spionidae, 149.

The proboscis of Lycastopsis catarractarum Feuerborn, 907.

Berrill, M. Comparative functional morphology of the Stauromedusae, 741.

Bertok, E. I. See Baker, B. E., 1041.

Blood, D. A. Parasites from California bighorn sheep in southern British Columbia, 913.

Bourns, T. K. R. Larval trematodes parasitizing Lymnaea stagnalis appressa Say in Ontario with emphasis on multiple infections, 937.

Boyes, J. W. Somatic chromosomes of higher Diptera. VII. Sarcophagid species in relation to

boyes, J. W. Somatic chromosomes of higher Diptera. VII. Sarcophagid species in relation to their taxonomy, 1204.

Bradley, R. H. E. See Anderson, J. M., 705.

Cameron, M. L. and Fogal, W. H. The development and structure of the acrosome in the sperm of Lumbricus terrestris L., 753.

Cameron, T. W. M. See Webster, G. A., 185.

Chant, D. A. The subfamily Blattisocinae Garman (= Aceosejinae Evans) (Acarina: Blattisocidae Garman) (= Aceosejidae Baker and Wharton) in North America, with descriptions of new species 243. descriptions of new species, 243.

Ching, H. L. The description and life cycle of Maritrema laricola sp. n. (Trematoda: Microphallidae), 881.

The life cycle and bionomics of Levinseniella charadriformis Young, 1949 (Trematoda: Microphallidae), 889.

Chitty, H. and Clarke, J. R. The growth of the adrenal gland of laboratory and field voles,

and changes in it during pregnancy, 1025.

Chouinard, L. A. Sites of formation of the extra nucleoli during early oocyte growth in the freshwater teleost Salvelinus fontinalis Mitchill, 997.

Christie, R. M. and Battle, H. I. Histological effects of 3-trifluoromethyl-4-nitrophenol (TFM) on larval lamprey and trout, 51.

Churcher, C. S. and Karrow, P. F. Mammals of Lake Iroquois age, 153. Clarke, J. R. See Chitty, H., 1025.

Cornwell, G. Observations on waterfowl mortality in southern Manitoba caused by Echinuria uncinata (Nematoda, Acuariidae), 699.

Cowan, I. McT. See Lewall, E. F., 629.
Cox, E. T. See Arai, M. N., 1011.
Craigie, D. E. An effect of water hardness in the thermal resistance of the rainbow trout,
Salmo gairdnerii Richardson, 825.

Das, V. M. Morphological studies of the male Nygolaimus aquaticus Thorne, 1930, 725.

Desser, S. See Lubinsky, G., 148, 1213.

Desser, S. S. Calcium accumulation in larval *Echinococcus multilocularis*, 1055.

Dixon, S. E. and Shuel, R. W. Studies in the mode of action of royal jelly in honeybee development. III. The effect of experimental variation in diet on growth and metabolism of honeybee larvae, 733,

Drew, M. E. See Adams, J. B., 1205, 1263. Driscoll, G. R. See Barlow, C. A., 963.

DuPorte, E. M. The postantennal region of the insect embryo, 909.

Eales, J. G. A comparative study of thyroid function in migrant juvenile salmon, 811.

See also Hoar, W. S., 653, 1061. See also Hoar, W. S., 653, 1061.

Evans, W. S. Amphimerus pseudofelineus (Ward, 1901) (Digenea: Opisthorchidae) and its second intermediate host in Manitoba, 649.

Fisher, K. C. See Pengelley, E. T., 1103.

Fogal, W. H. See Cameron, M. L., 753.

Fry, F. E. J. See Arai, M. N., 1011.

Gunn, E. See Hoar, W. S., 653.

Hanyu, I. See Ali, M. A., 225.

Harington, C. R. See Baker, B. E., 1035.

Hart, J. S. and Heroux, O. Seasonal acclimatization in wild rats (Ratus norvegicus), 711.

Harward, J. S., Nordan, H. C., and Wood, A. J. A simple electrolytic respirometer for

Hayward, J. S., Nordan, H. C., and Wood, A. J. A simple electrolytic respirometer for

small animals, 63.

Heroux, O. See Hart, J. S., 711.

Hoar, W. S. See Ahsan, S. N., 1045; Hui Wai, E., 611.

Hoar, W. S. and Eales, J. G. Dependence of conversion ratio on the dose of radioiodine in

fish, 1061.

Hoar, W. S. and Eales, J. G. With the technical assistance of Elizabeth Gunn. The thyroid gland and low-temperature resistance of goldfish, 653.

Hodasi, J. K. M. Helminths from Manitoba birds, 1227. Höhn, E. O. and Barron, J. R. The food of Wilson's phalarope (Steganopus versicolor) during the breeding season, 1171.

Holmes, J. C. Helminth parasites of pine marten, Martes americana, from the district of Mackenzie, 333

Holmes, N. D. and Peterson, L. K. Effects of variety and date of seeding spring wheats and location in the field on sex ratio of the wheat stem sawfly, Cephus cinctus Nort. (Hymenop-

tera: Cephidae), 1217.

Homan, R. See Musgrave, A. J., 1245.

Hopper, B. E. The males of *Criconema menzeli* (Stefański, 1924) Taylor, 1936 and C. octangulare (Cobb, 1914) Taylor, 1936 (Criconematidae: Tylenchida), 595.

Marine nematodes from the coast line of the Gulf of Mexico. III. Additional species

from Gulf Shores, Alabama, 841.

Punctodora exochopora n. sp. (Chromadoridae: Nematoda) from the Canadian shore of Lake Ontario, 1121 Hui Wai, E. and Hoar, W. S. The secondary sex characters and reproductive behavior of gonadectomized sticklebacks treated with methyl testosterone, 611.

Jay, S. C. The longitudinal orientation of larval honey bees (Apis mellifera) in their cells, 717. Juillet, J. A. A comparison of four types of traps used for capturing flying insects, 219.

Karrow, P. F. See Churcher, C. S., 153.

Kevan, D. K. McE. The genus Kuantania Miller, 1935, with a description of a new species from Indo-China (Orthoptera; Acridoidea; Pyrgomorphidae), 901.

Lachance, P. J. Experimental studies on Entamoeba. I. Temperature: a microclimatic factor in the cultivation of three species of Entamoeba, 1079.

Experimental studies on Entamoeba. II. Unprecedented instances of cannibalism in E. invadens and E. terrapinae, 1095.

Lewall, E. F. and Cowan, I. McT. Age determination in black-tail deer by degree of ossifica-

tion of the epiphyseal plate in the long bones, 629.

Lubinsky, G. Metadinium caudatum sp. n.—a rumen ciliate of muskox from Northern Canada,

Microtechnical methods for taxonomic studies on the Ophryoscolecidae, 905.

Lubinsky, G. and Desser, S. Vegetatively propagated strain of Echinococcus multilocularis and malignant tumors, 148. Growth of the vegetatively propagated strain of larval Echinococcus multilocularis

in C57L/J, B6AF<sub>1</sub>, and A/J mice, 1213.

McEwan, E. H. Seasonal annuli in the cementum of the teeth of barren ground caribou, 111. McFarlane, J. E. Induction in vitro by buffer solutions of a structural change occurring normally during the embryonic development of the house cricket, 23.

McMahon, J. W. and Rigler, F. H. Mechanisms regulating the feeding rate of Daphnia

magna Straus, 321.

Marsden, J. R. A preliminary report on digestive enzymes of *Hermodice carunculata*, 159. The digestive tract of *Hermodice carunculata* (Pallas). Polychaeta: Amphinomidae, 165.

Mills, E. L. A new species of Ampelisca (Crustacea: Amphipoda) from eastern North America, with notes on other species of the genus, 971.

Mulvey, R. H. The Mononchidae: a family of predaceous nematodes. IV. Genus Iotonchus (Enoplida: Mononchidae), 79.

The Mononchidae: a family of predaceous nematodes. V. Genera Sporonchulus,

Granonchulus, and Prionchuloides n. gen. (Enoplida: Mononchidae), 763.

Abnormalities in the reproductive organs of a predaceous nematode, Prionchulus muscorum, 793.

A grass nematode, Anguina agrostis (Steinbuch), on Arctagrostis latifolia from the Canadian Arctic, 1223.

Musgrave, A. J., Ashton, G. C., and Homan, R. Quantitative and qualitative effects of temperature and type of grain on populations of *Sitophilus* (Coleoptera: Curculionidae) and on their mycetomal microorganisms, 1245.

Myers, B. J. The migration of Anisakis-type larvae in experimental animals, 147.

Nayar, J. K. See Thorsteinson, A. J., 931.

Nayar, J. K. and Thorsteinson, A. J. Further investigations into the chemical basis of insect-host plant relationships in an oligophagous insect, Plutella maculipennis (Curtis) (Lepidoptera: Plutellidae), 923. Naylor, A. F. Glutamic and aspartic acids and sucrose in the diet of the flour beetle, *Tribolium confusum* (Tenebrionidae), 1127.

Niazi, I. A. The histology of tail regeneration in the ammocoetes, 125.

Nordan, H. C. See Hayward, J. S., 63.

Nursall, J. R. The caudal musculature of Hoplopagrus guntheri Gill (Perciformes: Lutjanidae),

Paim, U. and Beckel, W. E. Seasonal oxygen and carbon dioxide content of decaying wood as a component of the microenvironment of Orthosoma brunneum (Forster) (Coleoptera: Cerambycidae), 1133.

The influence of oxygen and carbon dioxide on the spiracles of a wood-boring insect, Orthosoma brunneum (Forster) (Coleoptera: Cerambycidae), 1149.

Parsons, M. C. The endoskeletal salivary pumping apparatus in representative Belostomatidae (Heteroptera), 1017.

Pengelley, E. T. and Fisher, K. C. The effect of temperature and photoperiod on the yearly hibernating behavior of captive golden-mantled ground squirrels (Citellus lateralis tescorum), 1103.
 Peterson, L. K. See Holmes, N. D., 1217.

Pfeiffer, W. The fright reaction in North American fish, 69.
The morphology of the olfactory organ of the Pacific salmon (Oncorhynchus), 1233. Putman, W. L. Lack of effect of DDT on fecundity and dispersion of the European red mite, Panonychus ulmi (Koch) (Acarina: Tetranychidae), in peach orchards, 603.

Rausch, R. L. Geographic variation in size in North American brown bears, Ursus arctos

L., as indicated by condylobasal length, 33.

Rigler, F. H. See McMahon, J. W., 321.

Riordan, D. F. Parasitism of *Neodiprion lecontei* (Fitch) (Hymenoptera: Diprionidae) in two infestations in Ontario in 1961, 1241.

Roberts, L. S. *Ergasilus nerkae* n. sp. (Copepoda: Cyclopoida) from British Columbia with a discussion of the copepods of the *E. caeruleus* group, 115.

Ronald, K. The metazoan parasites of the Heterosomata of the Gulf of the St. Lawrence. VII. Nematoda and Acanthocephala, 15. The effects of physical stimuli on the larval stage of *Terranova decipiens*. III. Electromagnetic spectrum and galvanotaxis, 197.

Roy, A. Etude de l'acclimation thermique chez la limace Arion circumscriptus, 671.

Salt, W. R. The composition of the pectoralis muscles of some passerine birds, 1185.

Schad, G. A. Thelandros magnavulvaris (Rankin, 1937) Schad, 1960 (Nematoda: Oxyuroidea) from the green salamander, Ancides aeneus, 943.

A taxonomic revision of the genus Pseudophysaloptera Baylis, 1934 (Nematoda:

Physalopteridae), 1069.

 Schad, G. A. and Anderson, R. C. Macacanema formosana n.g., n.sp. (Onchocercidae: Dirofilariinae) from Macaca cyclopsis of Formosa, 797.
 Schaefer, C. W. Remarks on Scudder's classification of the lygaeoid-coreoid complex of the Heteroptera, 1174.

Scudder, G. G. E. Adult abdominal characters in the lygaeoid-coreoid complex of the Heterop-

tera, and the classification of the group, 1.

Shaver, E. L. See Baldwin, W. F., 637.

Shuel, R. W. See Dixon, S. E., 733.

Steward, C. C. and Atwood, C. E. The sensory organs of the mosquito antenna, 577.

Stich, H. F. An experimental analysis of the courtship pattern of *Tipula oleracea* (Diptera),

Symes, A. L. See Baker, B. E., 1035, 1041.

Thompson, W. R. The tachinids of Trinidad. II. Echinomyiines, Dexiines, and allies, 335.

Thorsteinson, A. J. See Nayar, J. K., 923.

Thorsteinson, A. J. and Nayar, J. K. Plant phospholipids as feeding stimulants for grass-

hoppers, 931.

Watson, T. K. See Wilde, W. H. A., 953.

Webster, G. A. and Cameron, T. W. M. Some preliminary observations on the development

of Echinococcus in vitro, 185.

of Echinococcus in vitro, 185.

Wiggs, A. J. Notes on the use of the conversion ratio as an index of thyroid activity, 1176.

Wilde, W. H. A. and Watson, T. K. Bionomics of the pear psylla, Psylla pyricola Foerster, in the Okanagan valley of British Columbia, 953.

Wood, A. J. See Hayward, J. S., 63.

Wood, G. W. The capture-recapture technique as a means of estimating populations of

climbing cutworms, 47.

Wressell, H. B. See Barlow, C. A., 963.

Zacharuk, R. Y. Vital dyes for marking living elaterid larvae, 991.

